



7555-01

**National Science Foundation  
Notice of Meeting  
NSF Synchrotron Subcommittee of the  
Advisory Committee for Mathematical and Physical Sciences**

The National Science Foundation (NSF) announces the following meeting.

**NAME:** NSF Synchrotron Subcommittee Workshop (66)

**DATE AND TIME:** October 8, 2013                      8:00 am - 5:00 pm  
October 9, 2013                      8:00 am – 11:30 am

**PLACE:** Residence Inn, 650 N. Quincy St., Arlington, VA 22203

**TYPE OF MEETING:** Open

**CONTACT PERSON:** Dr. Mary Galvin, Division Director, Division of Materials Research, Room 1065, National Science Foundation, 4201 Wilson Boulevard, Arlington, VA 22230, Telephone: (703) 292-8562

**PURPOSE OF MEETING:** To gather information needed to advise the Division of Materials Research on its facilities portfolio including the role it and NSF should play in synchrotron science.

**AGENDA:**

Tuesday, October 8, 2013

8:45 am - 10:15 am: Overview

1. Summary of NSF Mat 2022 report findings – Murray Gibson, Northeastern University

2. Importance of materials research facilities for US research and economy, including the Department of Energy (DOE) role in materials facilities – Patricia Dehmer, DOE
3. Biology/biomaterials talk – importance of materials research facilities – Pupa Gilbert , University of Wisconsin
4. Nanoscience/technology talk – importance of materials research facilities – Stephen Campbell, University of Minnesota

10:15 am -10:30 am: Coffee break

10:30 am - 12:00 pm: DMR facilities and materials research needs, funded major facilities past and present

5. NSF DMR funded materials facilities, past accomplishments and future potential\*
  - a. Cornell High Energy Synchrotron Source (CHESS) – Joel Brock, Cornell University
  - b. National High Magnetic Field Laboratory (NHFML) –Gregory Boebinger, Florida State University

12:00 – 1:00 pm: Lunch

1:00 pm - 2:30 pm: DMR funded major facilities past and present

6. NSF DMR funded materials facilities, past accomplishments and future potential
    - a. National Institute of Standards and Technology (NIST) partnership – Rob Dimeo, NIST
    - b. Synchrotron Radiation Center (SRC) at University of Wisconsin-Madison - Tai Chiang, University of Illinois at Urbana-Champaign
- General discussion

2:30 pm – 3:00 pm – Coffee Break

3:00 pm - 5:00 pm: Novel materials facilities concepts and opportunities and how they are currently funded in the US

7. Future of higher harmonic light sources and their applications in materials science - Margaret Murnane, Joint Institute for Laboratory Astrophysics (JILA)
8. Potential new light sources – overview of field, especially mid-scale accelerator based light sources and compact light sources – Chan Joshi, University of California at Los Angeles
9. Theory and Simulation of materials - what facilities or infrastructure is needed to advance the field faster –Peter Voorhees, Northwestern University

5:00 pm - 5:45 pm: Community input and general open discussion

Wednesday, October 9, 2013

8:00 am - 10:30 am: International materials facilities developments

10. International picture – new developments in light sources - Yves Petroff, Brazilian Synchrotron Light Laboratory (LNLS)
11. International picture - new developments in Transmission Electron Microscope (TEM) facilities - Dorte Jensen, Riso and Nigel Browning, Pacific Northwest National Laboratory (PNNL)
12. International picture – materials synthesis and characterization – Hard Materials – Charles Ahn, Yale University
13. International picture – materials synthesis and characterization – Soft Materials - TBD

10:30 – 11:30 am: Community input and general open discussion

Susanne Bolton  
Committee Management Officer

Dated: September 19, 2013

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